PPC 25 Installation Instructions

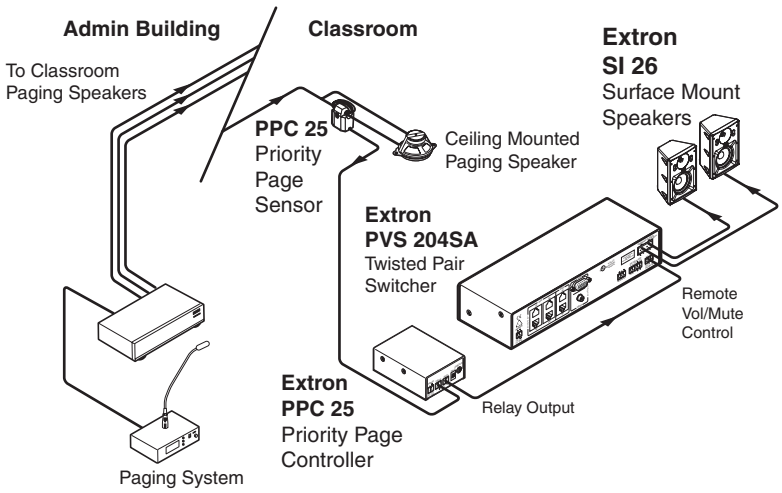
PPC 25 Overview

The PPC 25 consists of the Priority Page Controller and Priority Page Sensor. Together they mute classroom audio for the duration of an announcement that is made over a Public Address (PA) system.

The Sensor connects to a PA speaker lead and detects current flow when a PA announcement is initiated.

The Sensor signal triggers the PPC 25 controller's output relay to close. This relay closure can connect to a PoleVault™ switcher, a Mini Power Amplifier (MPA), a MediaLink™ Controller (MLC), or any device with a contact closure type of mute control or a configurable digital input.

The output relay remains closed until the PA announcement ends. It then opens, dropping the mute signal and restoring the classroom audio.



A Typical PPC 25 Installation

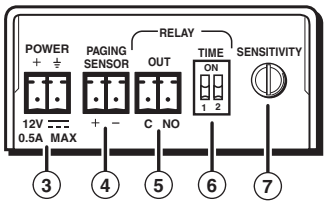
For a PoleVault System, the output relay should connect only to the PVS 204SA and not the MLC. This requires no software configuration.

If the Output Relay is connected to an MLC digital input, use Global Configurator software to configure the input port, and set the monitoring conditions and actions to drive the desired mute function on the classroom audio device.

The PPC 25 Controller and Sensor are rated for use in plenum environments (any area utilized for air handling, including areas above suspended ceilings and below raised floors). The PPC 25 Sensor assembly must be installed in a UL-compliant junction box with a cover to meet the plenum rating requirement.

NOTE *The PPC 25 works with traditional 25V or 70V and 4/8 ohm PA systems. It was not designed for, and may not work properly with, systems using digital clocks and two-way intercoms.*

Front and Rear Views of the PPC 25 Controller



1. **Power-on LED** — green when power is on
2. **RELAY LED** — amber when output relay is closed
3. **POWER receptacle** — 12 VDC, 33 mA. The unit does not ship with a power supply. Power may be shared with another device. Polarity must be observed.
4. **PAGING SENSOR connector** — for the Priority Page Sensor that is located near a PA system speaker
5. **RELAY OUT connector** — connects to an amplifier or switcher that has a contact closure type of mute control input, or to an MLC device with a digital input. When a PA system announcement is initiated, the output relay closes and remains closed for the duration of the announcement. The closed output relay triggers the classroom audio mute function. When integrating the PPC 25 into a PoleVault System, connect the output relay to the PVS 204SA Mute and Ground pins only (see diagram on page 2).
6. **TIME switch** — sets how long the output relay will remain closed after a PA announcement has ended. A short time delay is necessary so that if the PA system announcer pauses briefly during the announcement, the classroom audio is not restored prematurely. The 2-position DIP switch provides the following time settings:

↓↓ = 2.0 sec (default) ↑↓ = 4.0 sec ↓↑ = 6.0 sec ↑↑ = 8.0 sec

7. **SENSITIVITY adjustment** — sets the sensitivity level for the signal arriving from the Priority Page Sensor. The final setting depends on the type of paging system and the number of wire loops on the Sensor (see page 2). Rotate clockwise to increase sensitivity and counterclockwise to decrease sensitivity.

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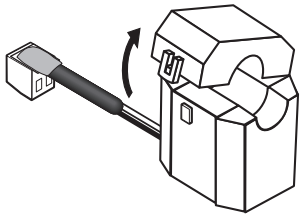
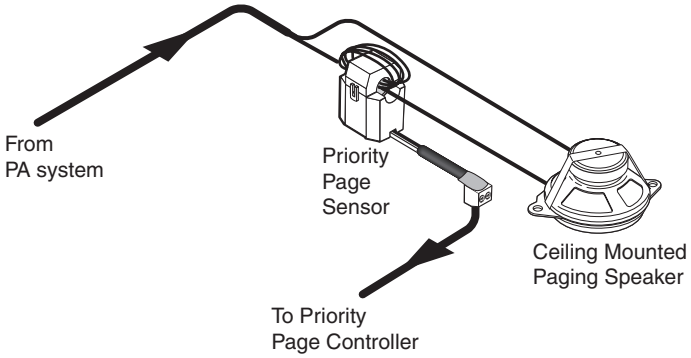
PPC 25 Installation Instructions, cont'd

Installation Procedure

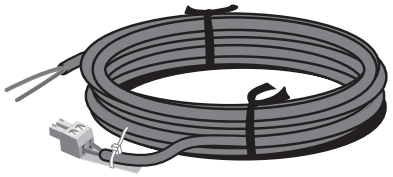
NOTE *Follow all local fire and safety code requirements for installation and anchoring. Install the PPC 25 Sensor in a UL-compliant junction box with a cover to meet plenum rating requirements.*

1. Open the top of the Priority Page Sensor.





2. Loop either one of the speaker wire leads around the top (open) part of the Sensor, and connect it to the speaker as shown above. Connect the other speaker wire directly to the speaker. Polarity need not be observed.
   - For a **25V** or **70V** system — wrap **5 to 8 loops**.
   - For a **4/8 ohm** system — wrap **2 to 4 loops**.
3. Close and latch the top of the Priority Page Sensor.
4. Cut an 18" section from the unterminated end of the supplied blue sensor cable for use in step 8 below.
5. Strip 3/16″ of insulation from each conductor on the bare wire end of the blue sensor cable. Do not tin the leads.
6. Connect the stripped leads to the 2-pole captive screw connector on the Priority Page Sensor. Polarity need not be observed.



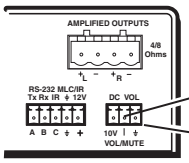
Blue
Sensor
Cable

7. Route the connector end to the PPC 25 Controller, and plug it into the PAGING SENSOR receptacle.
8. Connect the 18″ 2-conductor cable (from step 4) from the RELAY OUT port on the PPC 25 Controller to the mute control input port on the audio amp or switcher to be muted during a PA system announcement. Polarity need not be observed.

When integrating the PPC 25 into a PoleVault System:

1. Connect the 18″ cable (from step 4 above) from the RELAY OUT port on the PPC 25 Controller to the MUTE and GROUND pins on the PoleVault PVS 204SA VOL/MUTE port. Polarity need not be observed.
2. Use the included cable assembly (PN 27-576-01LF) to power the PPC 25 from the PVS 204SA power supply. The PPC 25 must be mounted near the PVS 204SA and its power supply.

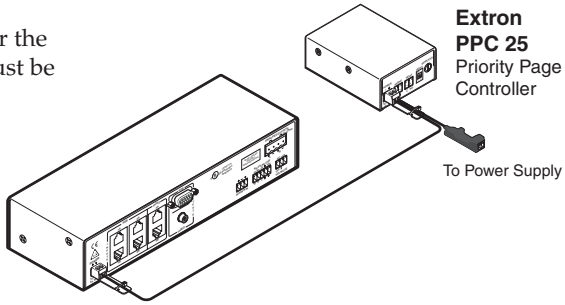
Extron
PVS 204SA
Rear Panel



Mute (center)

Ground (right)

Extron
PPC 25
Priority Page
Controller



To Power Supply

Extron
PVS 204SA
Twisted Pair
Switcher

Testing and Adjustment Procedure

To test that the classroom audio is muted when a PA system announcment (page) occurs:

1. Turn the classroom audio on.
2. Speak into the PA system microphone. The classroom audio should be muted while the PA system page occurs, and be restored when the page ends.
3. If the PPC 25 fails to mute the classroom audio during a page, turn the SENSITIVITY adjustment clockwise.
4. If classroom audio is muted without a page occurring, turn the SENSITIVITY adjustment counterclockwise.

www.extron.com

Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort, The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg., Singapore 368363
+800.7339.8766 +65.6383.4400
FAX +65.6383.4664

Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan
+81.3.3511.7655 FAX +81.3.3511.